



9U-64 / RN40

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DATA AS OF 2024 (standard replenishment)

9U-64 / RN40



Light tactical nuclear bomb with a charge of adjustable yield developed by VNIIP (now RFNC-VNIITF, USSR Ministry of Medium Machine Building, Snezhinsk). The bomb was accepted into service by 1983 according to Western data (probably in 1980-1982). Serial production was carried out at the Instrument-Making Plant in Trekhgornyy.

Some sources indicate the index 8U-64 - taking into account the chronology of the creation of the products, this index may be erroneous.



Visually, the RN40 bomb is similar to the RN28 bomb. In the photo, the RN28 bomb is at the exhibition "70 years of the nuclear industry" in Manezh in Moscow, 2015 (<https://pfc-joker.livejournal.com/>)

The design is an aerial bomb for supersonic carrier aircraft with a pointed nose cone and swept-back stabilizers of the "free feather" type - made in the image of the ballistic body of the [244N / RN24](#) bomb. In the nose section, under the radio-transparent fairing, there is a radio altimeter of the detonation system. The tail cone contains a container for the brake parachute.

Ammunition automation : the automation system was developed by VNIIA / VNIITF.

Performance characteristics of the RN40 aerial bomb :

Length - 4 m

Wingspan - 0,5 m

Weight - 250 kg ([source](#)) / 370 kg ([source](#))

Bombing altitude - 500 - 30,000 m

Flight speed - up to 3,000 km / h

Warhead : adjustable-yield nuclear warhead developed by VNIITF.

Power - 30 kt ([source](#))

Modifications :

- 9U-64 / RN40 - the main version of the bomb.

Carriers :

- MiG-23MF frontline fighter - suspension on BD3-66-23N beams (left and right under-fuselage) with D3-47D lock ([source](#))

- Su-20, Su-22UM3K, Su-22M4 frontline fighter-bombers - suspension on BD3-56FNM beams (points 1s-2s) with D3-55M lock ([source](#))

- MiG-29 frontline fighter ([source](#))

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Status : USSR - was in service

- December 1983 - in one of the storage facilities of the 12th GUMO in Eastern Europe (outside the territory of the USSR), during a control check, a malfunction of the electric detonator of the parachute was discovered in the RN40 product systems ([source](#)).

Sources :

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